

FIG.2

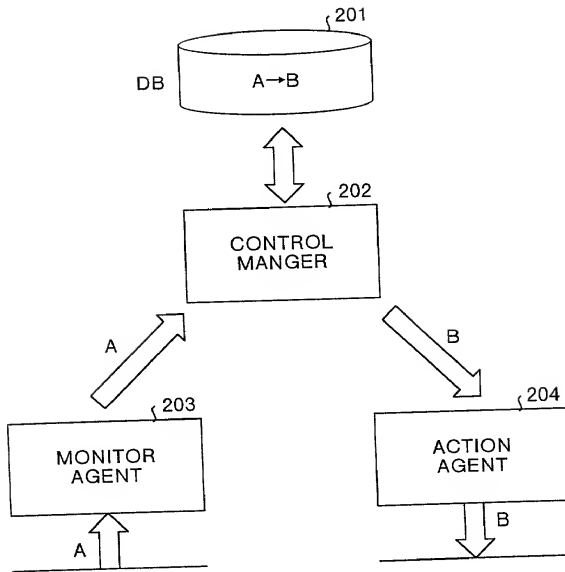


FIG.3

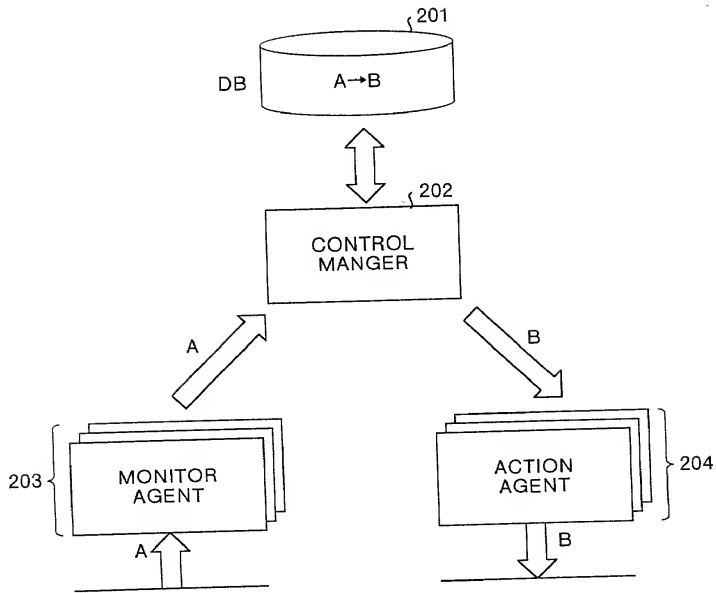


FIG.4

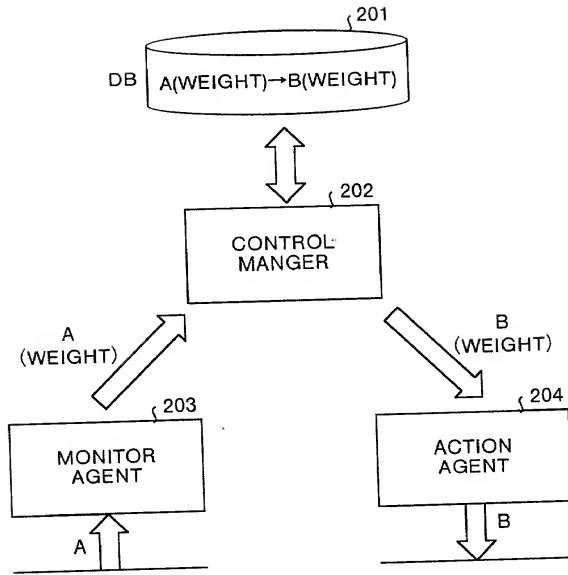
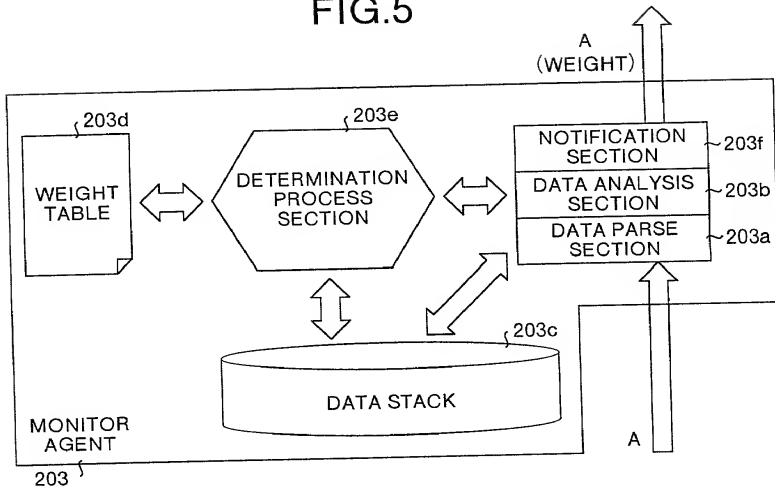


FIG.5



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FIG.6

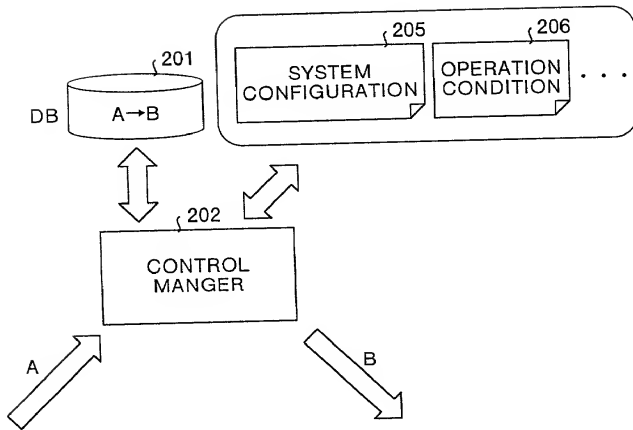


FIG.7

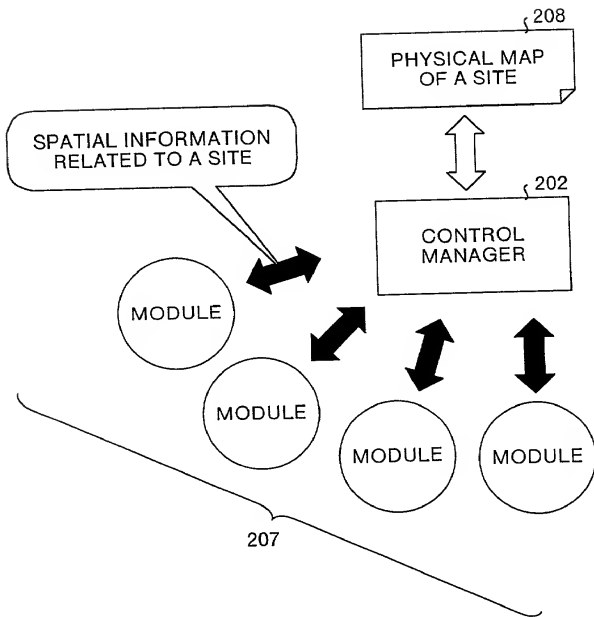


Diagram illustrating a data structure with two fields:

- 205 SYSTEM CONFIGURATION
- 206 OPERATION CONDITION

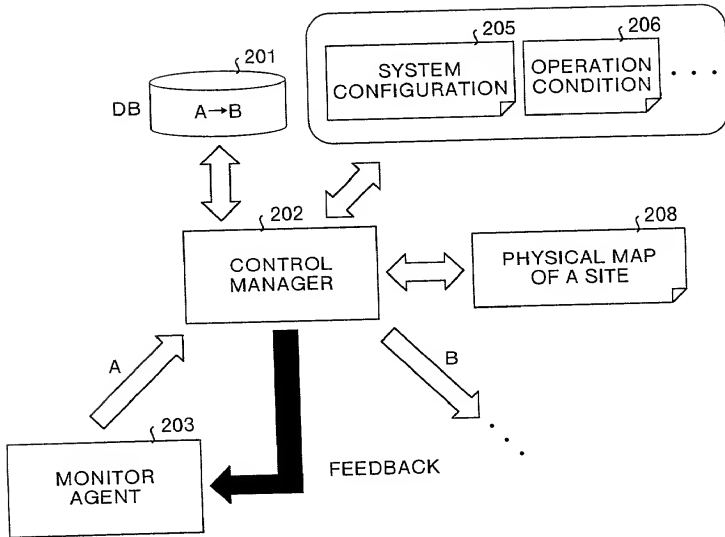
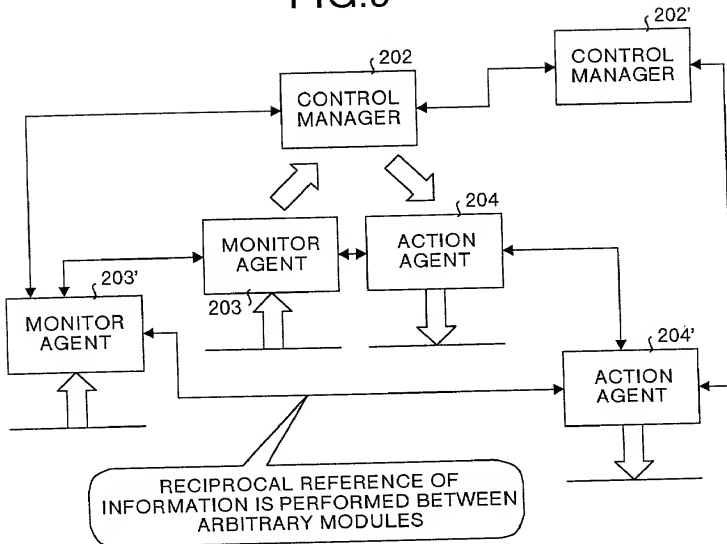




FIG.9



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FIG.10

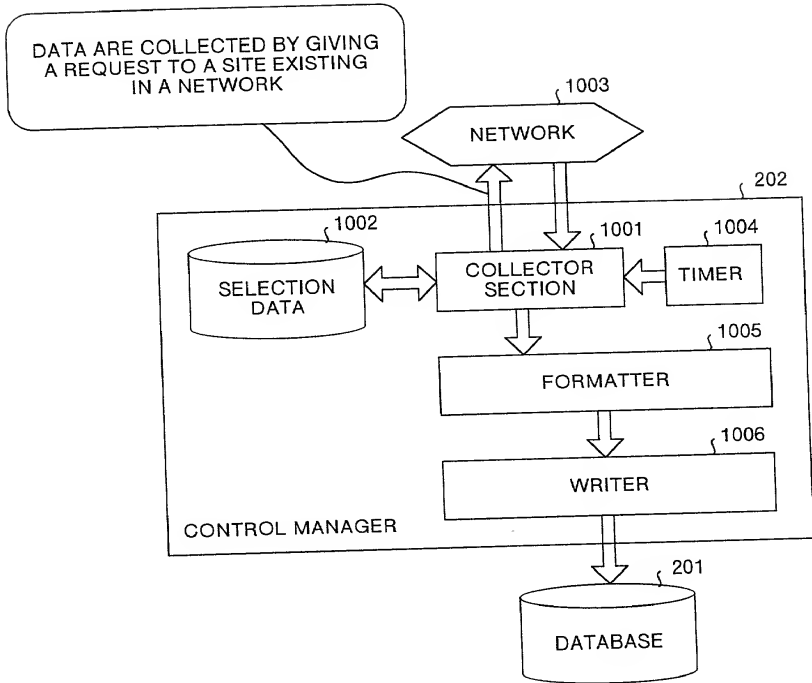


FIG.11

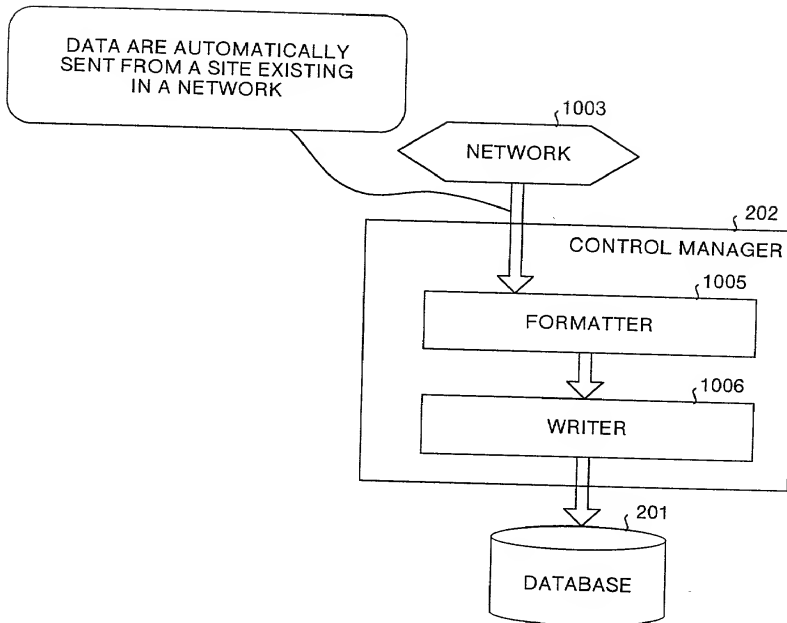
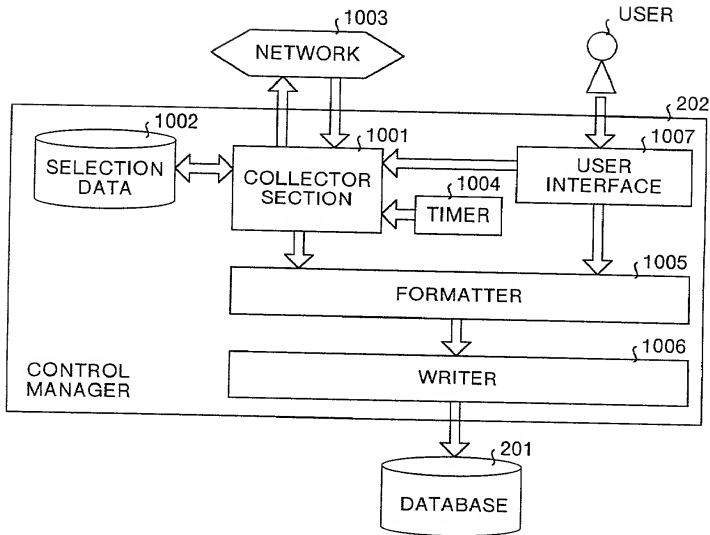
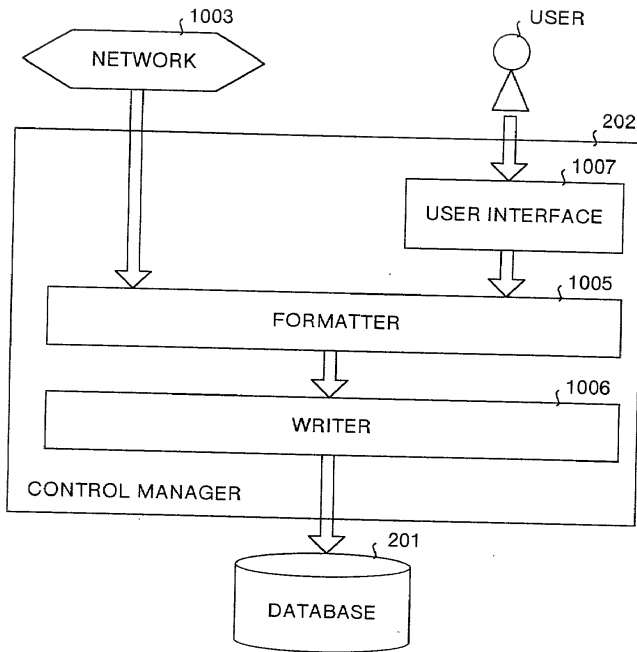


FIG.12



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FIG.13



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FIG.14

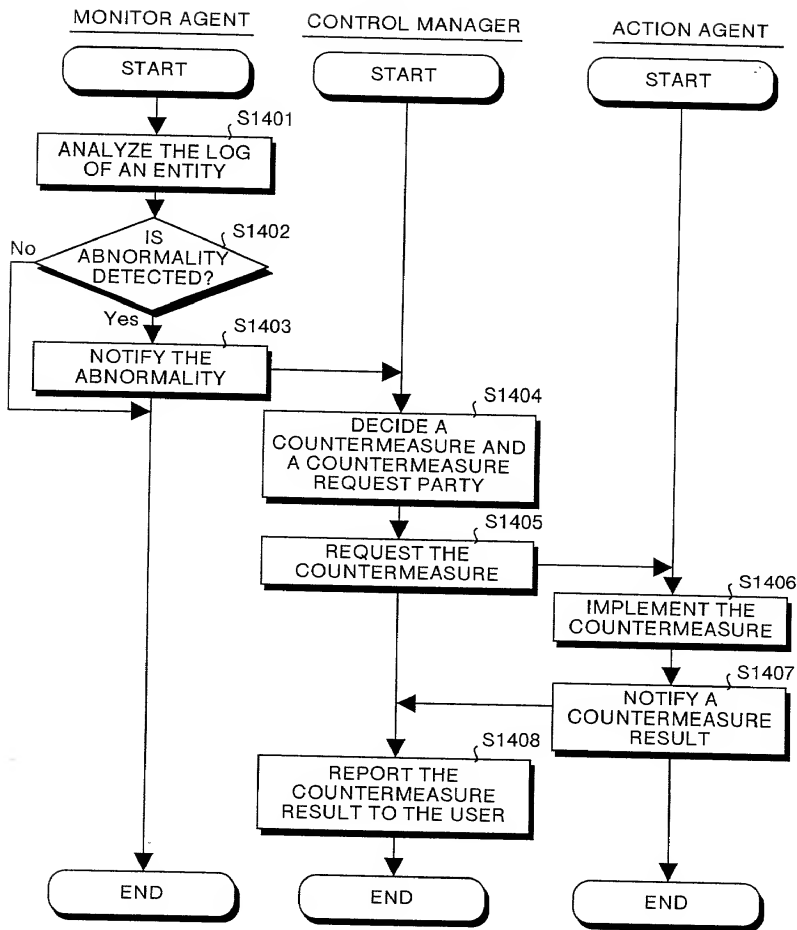


FIG.15

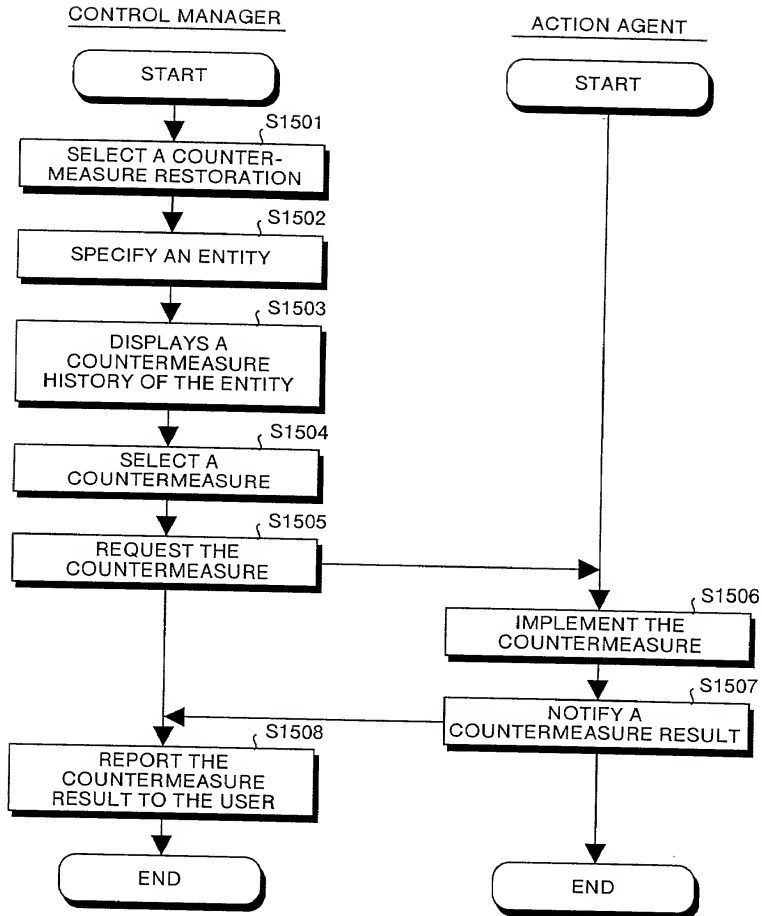


FIG.16

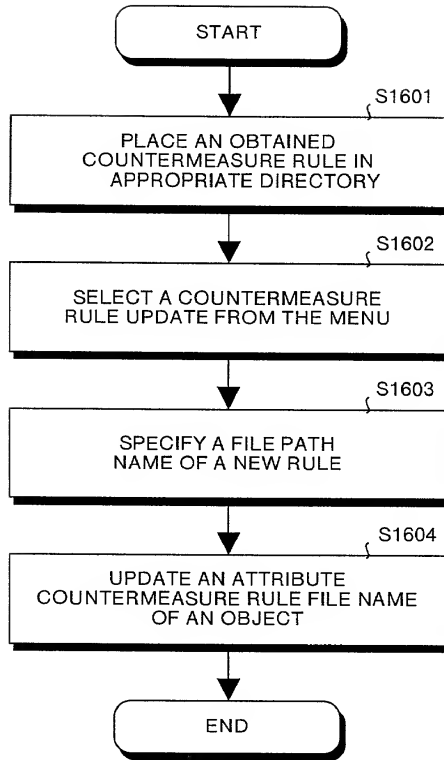




FIG.17

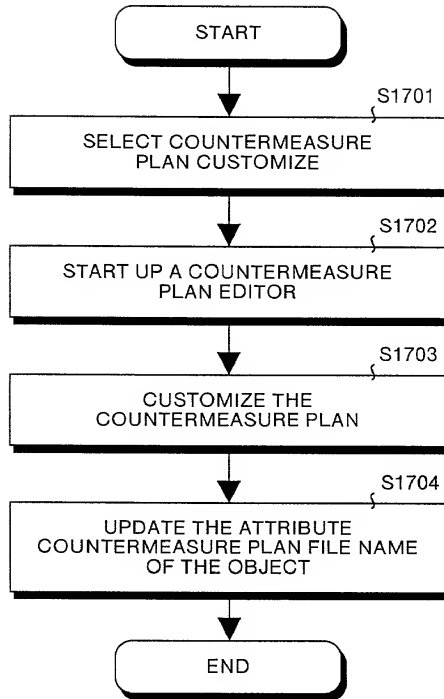
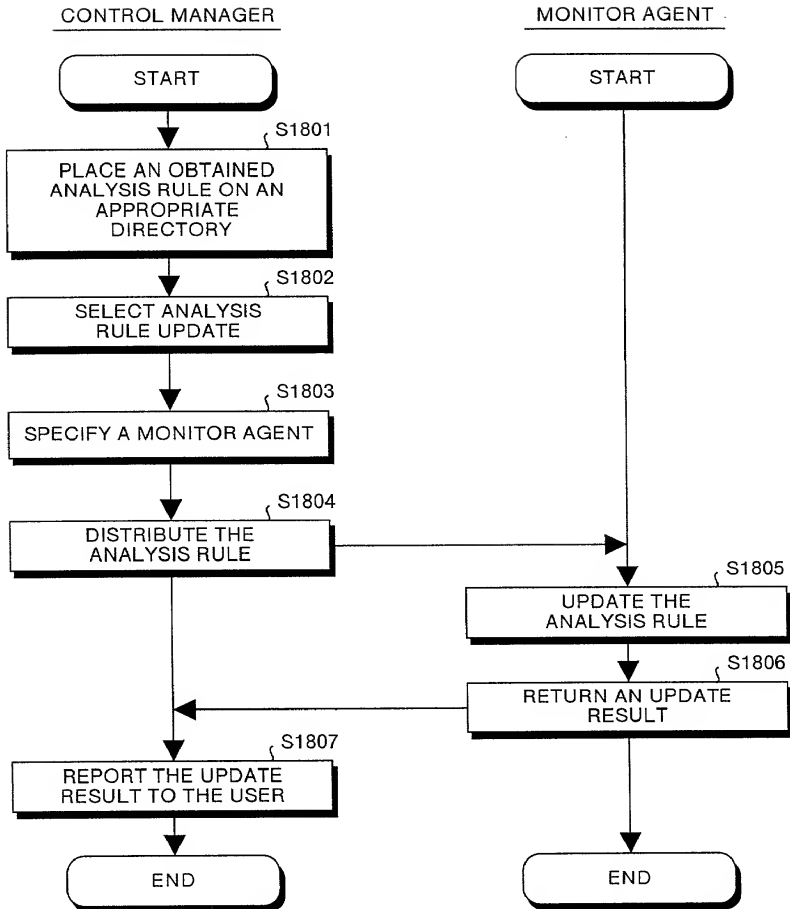
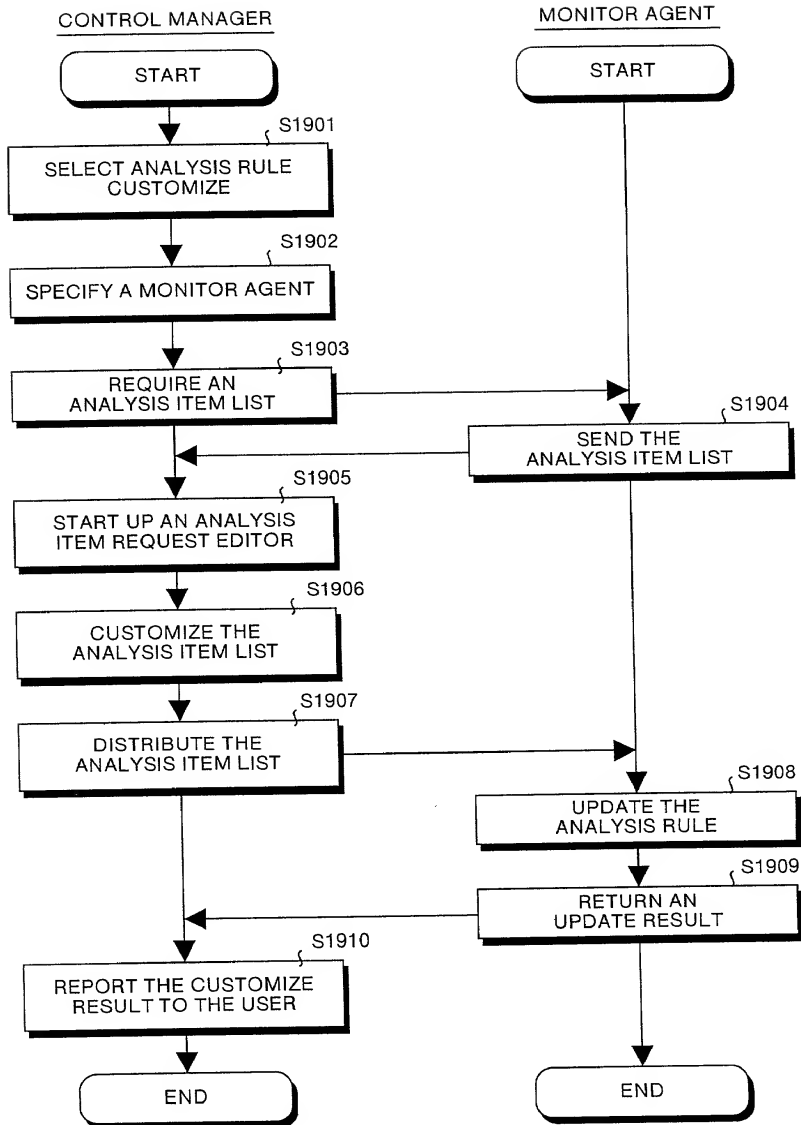
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FIG.18



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FIG.19



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FIG.20

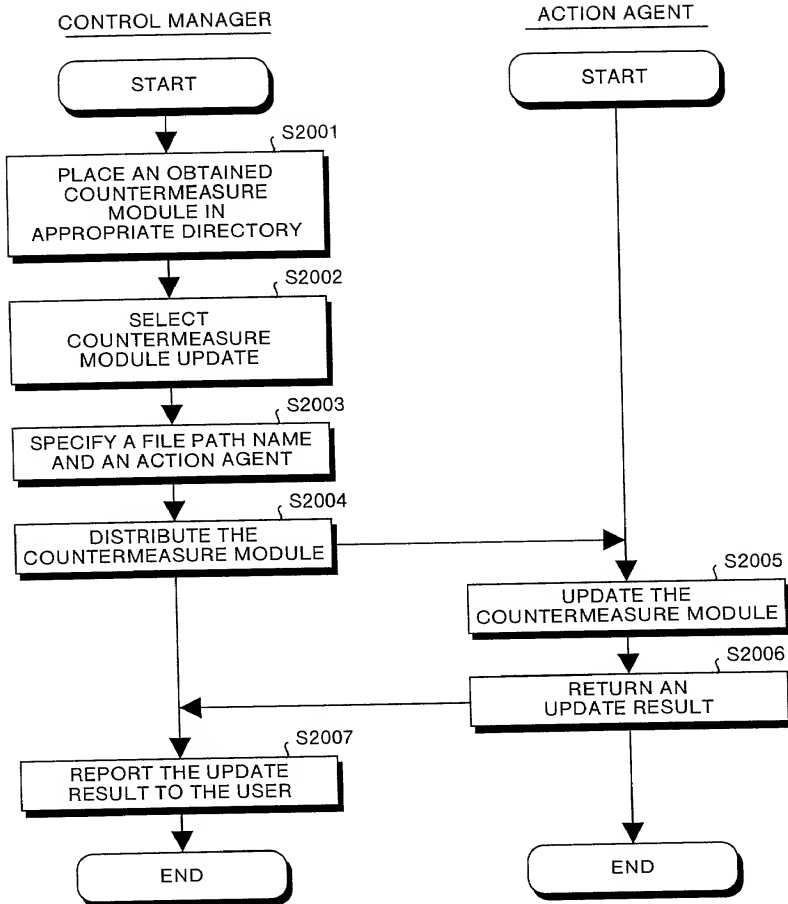


FIG.21A

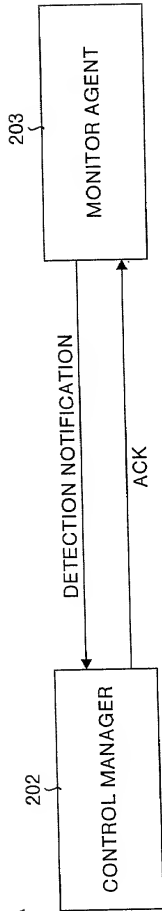


FIG.21B

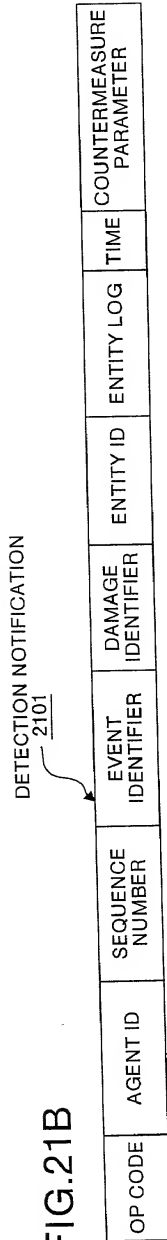


FIG.21C

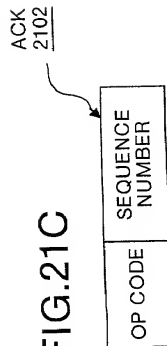


FIG.22A

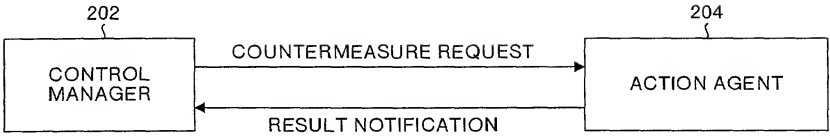


FIG.22B

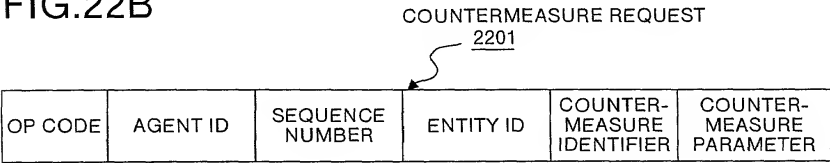


FIG.22C

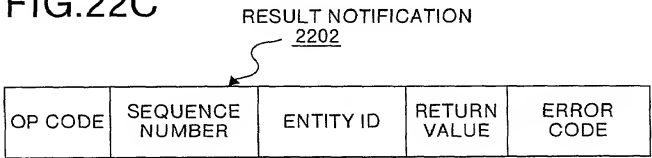


FIG.23A

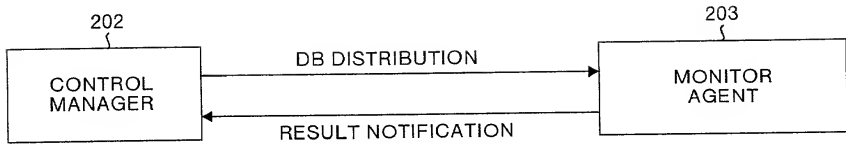


FIG.23B

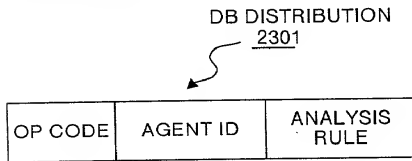


FIG.23C

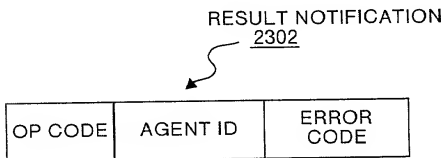


FIG.24A

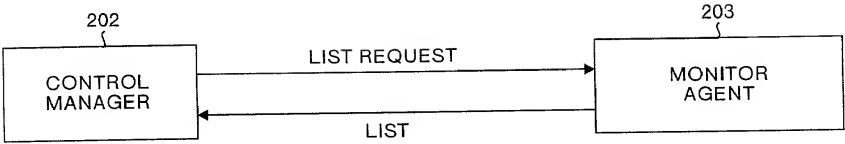


FIG.24B

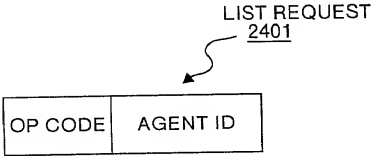


FIG.24C

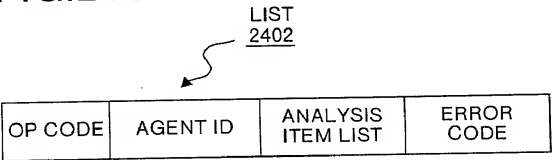




FIG.25A

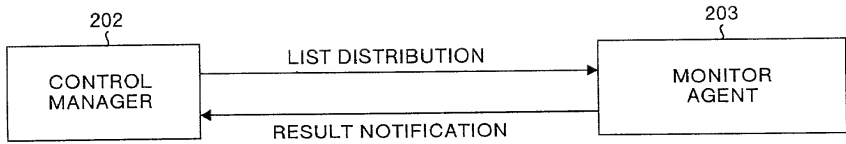


FIG.25B

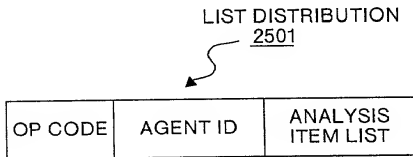


FIG.25C

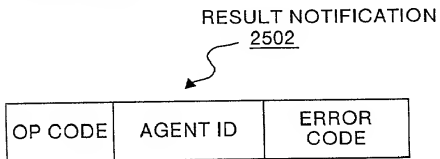


FIG.26A

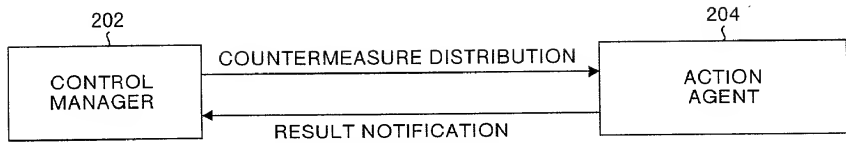


FIG.26B

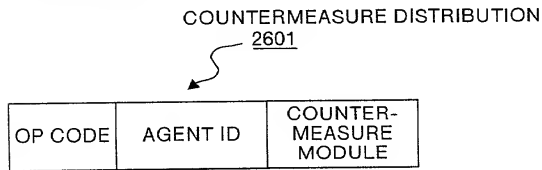


FIG.26C

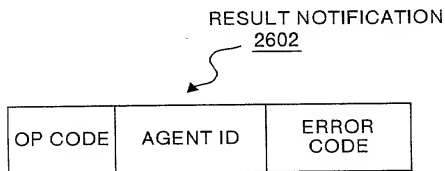
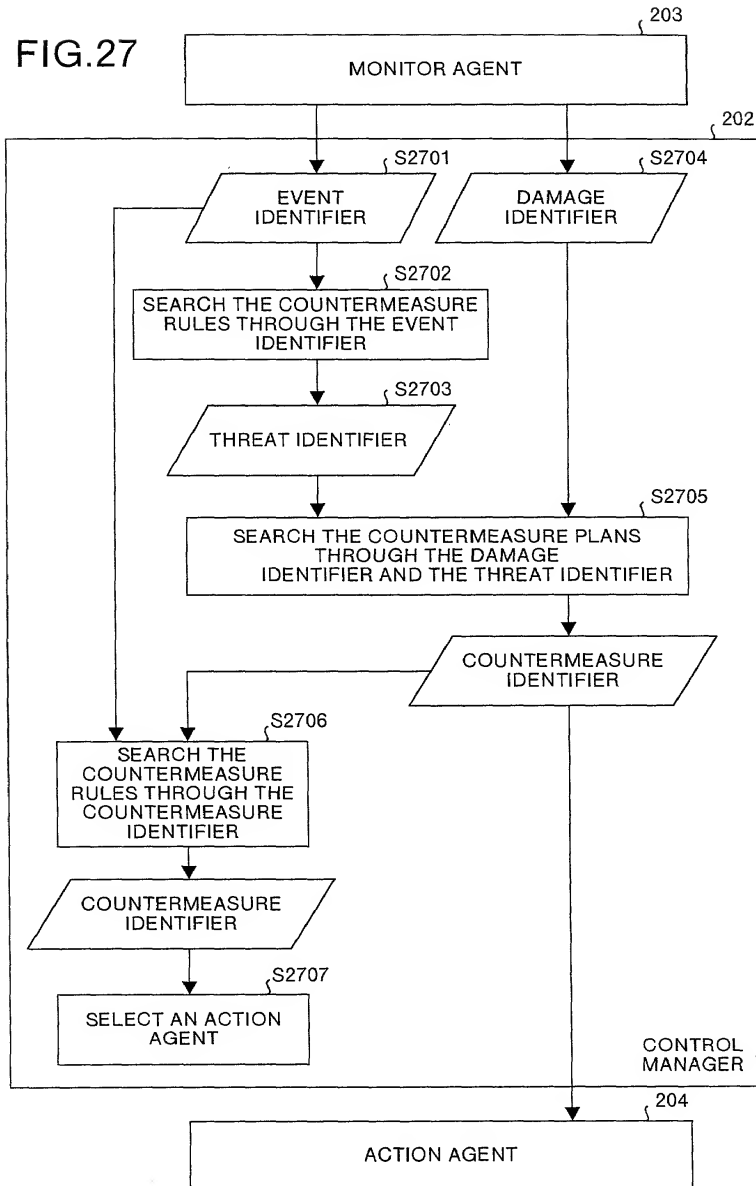


FIG.27



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FIG.28A

EVENT IDENTIFIER	DAMAGE IDENTIFIER
EVENT 001	DAMAGE EXISTS

FIG.28B

COUNTERMEASURE RULES

EVENT IDENTIFIER	THREAT IDENTIFIER	COUNTER-MEASURE IDENTIFIER	COUNTER-MEASURE DESIGNATOR
EVENT 001	THREAT 001	COUNTER-MEASURE 001	SERVER
EVENT 001	THREAT 001	COUNTER-MEASURE 002	FW
EVENT 002	THREAT 001	COUNTER-MEASURE 001	SERVER
EVENT 002	THREAT 001	COUNTER-MEASURE 002	FW
EVENT 003	THREAT 010	COUNTER-MEASURE 011	SERVER
EVENT 003	THREAT 010	COUNTER-MEASURE 012	SERVER
EVENT 003	THREAT 010	COUNTER-MEASURE 012	FW
...	...	...	...

FIG.28C

COUNTERMEASURE PLANS

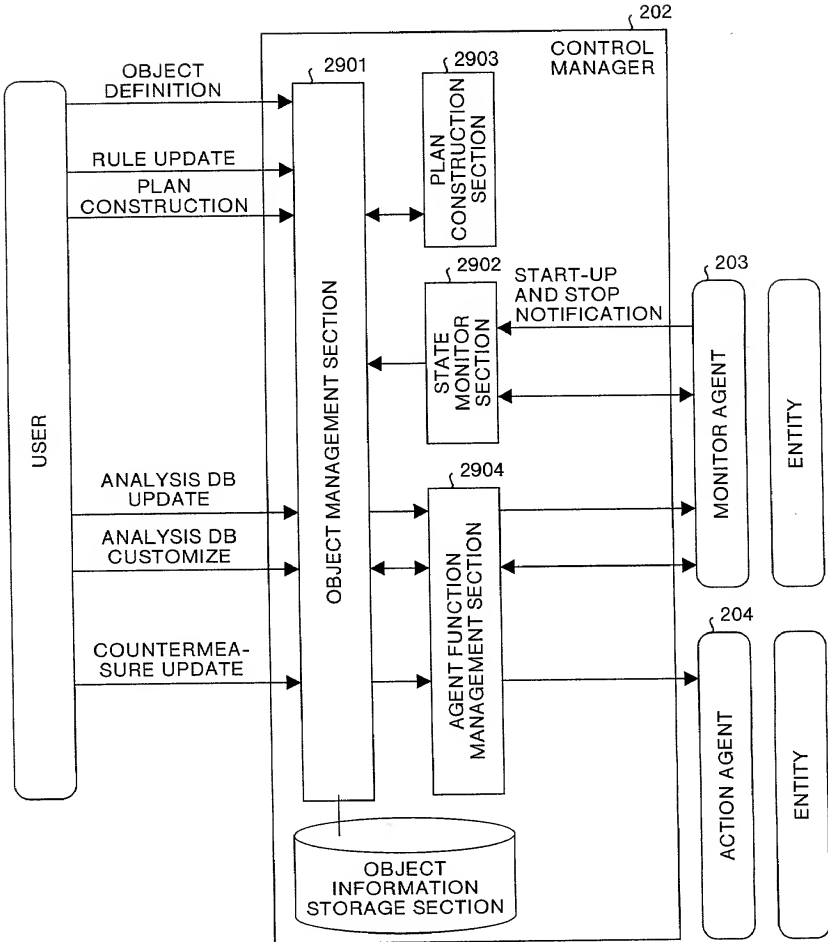
EVENT IDENTIFIER	THREAT IDENTIFIER	COUNTER-MEASURE IDENTIFIER
DAMAGE EXISTS	THREAT 001	COUNTER-MEASURE 001
DAMAGE UNCLEAR	THREAT 001	COUNTER-MEASURE 002
NO DAMAGE	THREAT 001	—
DAMAGE EXISTS	THREAT 002	COUNTER-MEASURE 011
DAMAGE UNCLEAR	THREAT 002	—
NO DAMAGE	THREAT 002	—
...	...	...

FIG.28D

COUNTERMEASURE RULES

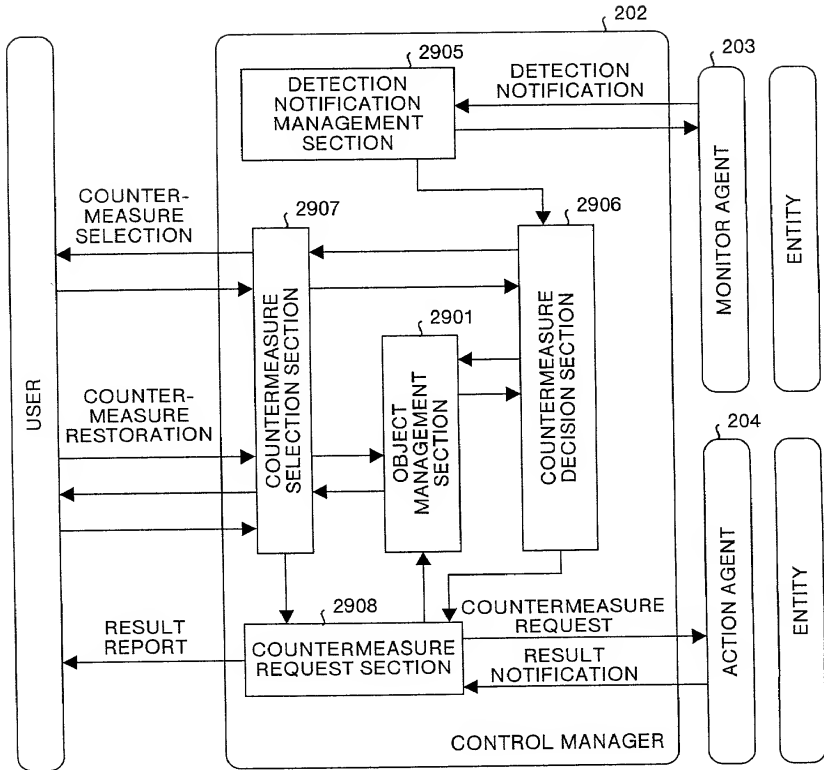
EVENT IDENTIFIER	THREAT IDENTIFIER	COUNTER-MEASURE IDENTIFIER	COUNTER-MEASURE DESIGNATOR
EVENT 001	THREAT 001	COUNTER-MEASURE 001	SERVER
EVENT 001	THREAT 001	COUNTER-MEASURE 002	FW
EVENT 002	THREAT 001	COUNTER-MEASURE 001	SERVER
EVENT 002	THREAT 001	COUNTER-MEASURE 002	FW
EVENT 003	THREAT 010	COUNTER-MEASURE 011	SERVER
EVENT 003	THREAT 010	COUNTER-MEASURE 012	SERVER
EVENT 003	THREAT 010	COUNTER-MEASURE 012	FW
...	...	...	...

FIG.29



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FIG.30



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FIG.31

ATTRIBUTE		EXPLANATION
CONTROL MANAGER	ID	THE CONTROL MANAGER ASSIGNS AT THE TIME OF OBJECT DEFINITION
	IP ADDRESS	INFORMATION TO BECOME NECESSARY IN COMMUNICATION FROM AN AGENT TO THE CONTROL MANAGER. TWO PORT NUMBERS EXIST FOR THE MONITOR AGENT AND THE ACTION AGENT
	PORT NUMBER (1)	
	PORT NUMBER (2)	
	COMMUNICATION TIMEOUT VALUE	
	THE NUMBER OF COMMUNICATION RETRIES	
COUNTER- MEASURE RULE	FILE NAME (PLURAL NAMES ALLOWED)	SPECIFY THE PATH TO THE COUNTERMEASURE RULE FILE
COUNTER- MEASURE PLAN	FILE NAME	SPECIFY THE PATH TO THE COUNTERMEASURE PLAN FILE
LOG FORMAT DEFINITION	FILE NAME	THE CONTROL MANAGER DRAWS OUT TIME FROM THE ENTITY LOG SENT FROM THE MONITOR AGENT
AGENT AUTHORIZA- TION LIST	FILE NAME	THE LIST OF AN AGENT AUTHORIZED BY AN AUTHORIZATION ORGANIZATION. THE CONTROL MANAGER DOES NOT ACCEPT PROCESS FROM AN AGENT WHICH IS NOT IN THE LIST
STATE MONITOR	TIME INTERVAL	THE INTERVAL FOR CONFIRMING THE STATE OF AN AGENT IS SPECIFIED
MONITOR AGENT	ID (PLURAL IDS ALLOWED)	WHEN THE MONITOR AGENT IS OBJECT- DEFINED, IT IS AUTOMATICALLY ADDED
ACTION AGENT	ID (PLURAL IDS ALLOWED)	WHEN THE ACTION AGENT IS OBJECT-DEFINED, IT IS AUTOMATICALLY ADDED

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FIG.32

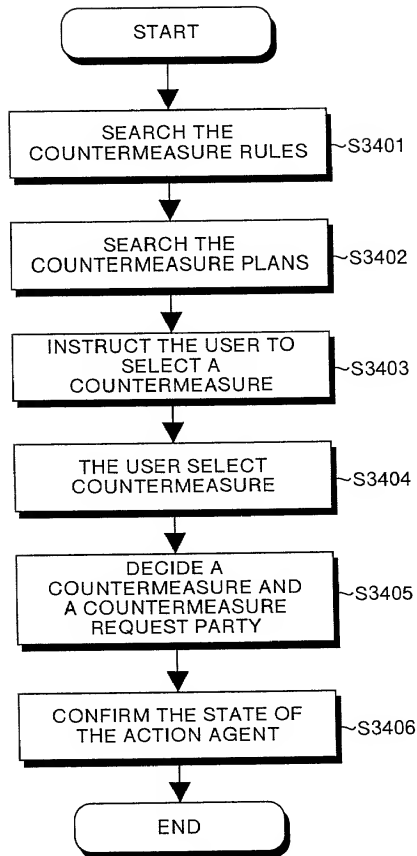
ATTRIBUTE		EXPLANATION
AGENT	ID	THE CONTROL MANAGE ASSIGNS AT THE TIME OF OBJECT DEFINITION
	STATUS	SHOW THE OPERATION STATE
	IP ADDRESS	INFORMATION TO BECOME NECESSARY IN COMMUNICATION FROM THE CONTROL MANAGER TO AN AGENT
	PORT NUMBER	
	COMMUNICATION TIMEOUT VALUE	
	THE NUMBER OF COMMUNICATION RETRIES	
ENTITY	ID	OBJECT ENTITY OF AN AGENT
CONTROL MANAGER	ID	CONTROL MANAGER OF AN AGENT

FIG.33

ATTRIBUTE		EXPLANATION
ENTITY	ID	THE CONTROL MANAGE ASSIGNS AT THE TIME OF OBJECT DEFINITION
	IP ADDRESS	INFORMATION TO BECOME NECESSARY IN COMMUNICATION FROM AN AGENT TO AN ENTITY
	PORT NUMBER	
	COMMUNICATION TIME OUT VALUE	
	THE NUMBER OF COMMUNICATION RETRIES	
FW ENTITY	ID	ENTITY CORRESPONDING TO THE FIREWALL OF THE ENTITY
MONITOR AGENT	ID	WHEN THE MONITOR AGENT IS OBJECT-DEFINED, IT IS AUTOMATICALLY ADDED
ACTION AGENT	ID	WHEN THE ACTION AGENT IS OBJECT-DEFINED, IT IS AUTOMATICALLY ADDED
COUNTER-MEASURE HISTORY	(PLURALITY IS ALLOWED)	LEAVE A COUNTERMEASURE OR A COUNTERMEASURE RESULT AS A HISTORY
ENTITY INHERENT INFORMATION	FIREWALL-1	FIREWALL-1 OBJECT NAME



FIG.34



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FIG.35

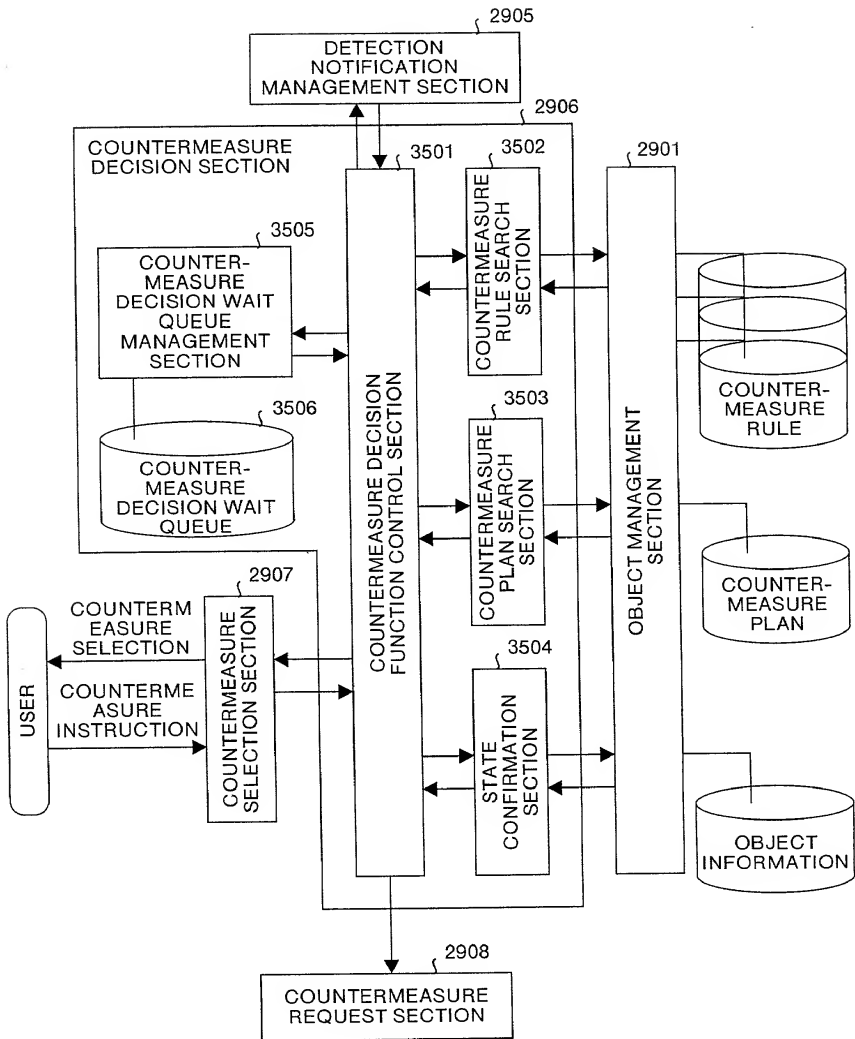


FIG.36

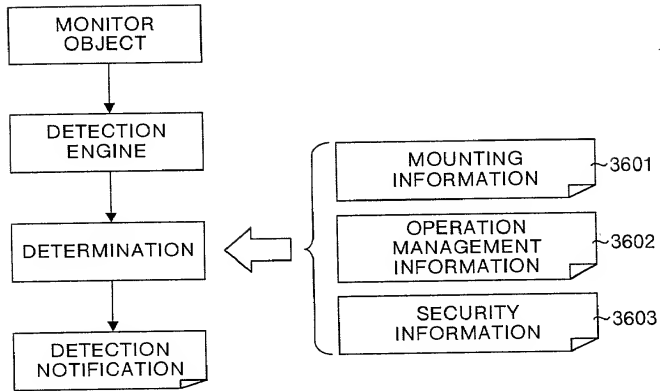


FIG.37

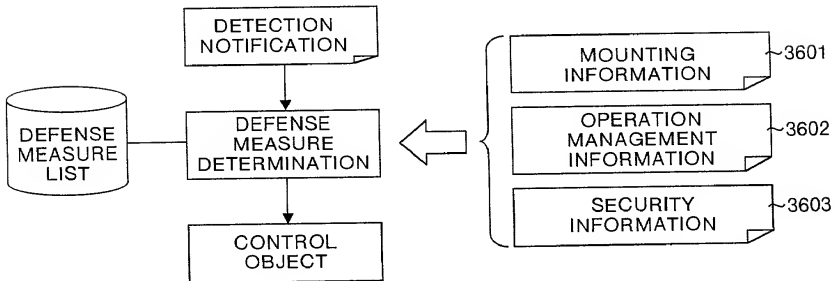


FIG.38

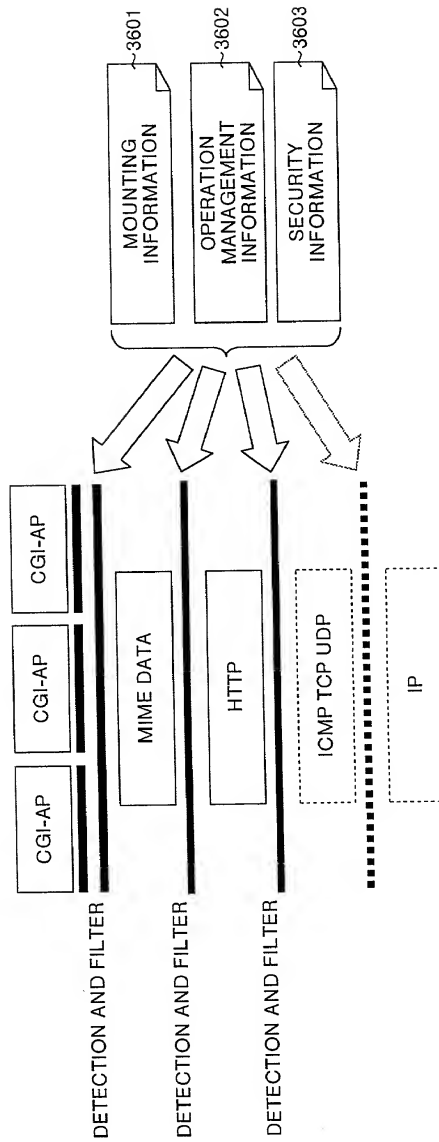
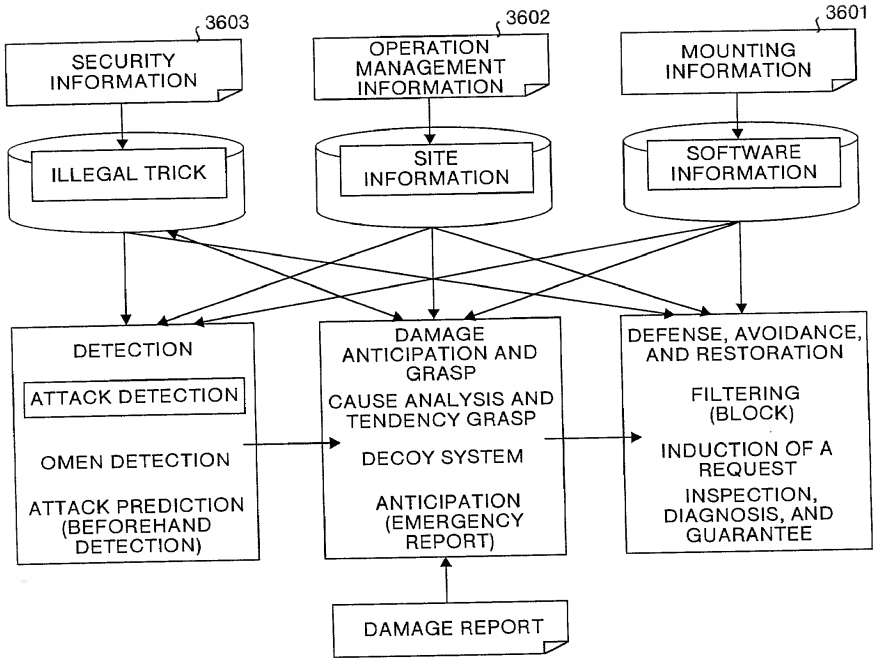


FIG.39



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